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JNANA BHARATHI
BANGALORE - 560 056

BUB/CTE/2015-16/

Date: 11-05-2015

1. TESTING OF FINE AGGREGATES:

Sub: Testing of Fine Aggregates.(Sand)
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

Ref.: Letter No. Testing/BUB/2015-16 dated 08-05-2015

Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor,
Bangalore.

Report required for: Assistant Executive Engineer,
SWD, Yalahanka Zone,
BBMP, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2007) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.00	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	84.20	60-95	75-100	85-100	
01.18	75.00	30-70	55-90	75-100	
600. mic	49.00	15-34	35-59	60-79	
300.mic	18.20	5-20	8-30	12-40	
150.mic	3.40	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2007)
1	Silt Content	001	1.44%	Not more than 8%
2.	Specific Gravity	----	2.58	-------

*As Furnished by Client.
The Results relate only to the items tested.

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JNANA BHARATHI
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BUB/CTE/2015-16/

1. TESTING OF COARSE AGGREGATES (40 mm):

Date:11-05-2015

Sub: Testing of Coarse Aggregates.
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}
Ref.: Letter No. Testing/BUB/2014-15, dated 08-05-2015
Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor, Bangalore.
Report required for: Assistant Executive Engineer, SWD, Yalahanka Zone, BBMP, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	*Single size*	*Graded*
40mm	98.00	85-100	95 – 100
20mm	64.20	0 -20	30- 70
10mm	28.00	0 -5	10- 35
4.75mm	Nil	------	0 - 5

TABLE 1 2 :

SL No	Test conducted	Sample No	Results	Requirements as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2007)
1.	Flakiness Index	As above	14.60%	Not to exceed 25 %
2.	Crushing value	----,,----	25.40%	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

*As Furnished by Client.
The Results relate only to the items tested.

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JNANA BHARATHI
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BUB/CTE/2015-16/

Date: 11-05-2015

1. TESTING OF COARSE AGGREGATES (20mm):

Sub: Testing of Aggregates 20mm.

{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

Ref.: Letter No. Testing/BUB/2014-15, dated 08-05-2015

Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor,
Bangalore.

Report required for: Assistant Executive Engineer,
SWD, Yalahanka Zone,
BBMP, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	*Percentage passing* 20 mm Sample	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
		Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	97.00	85-100	95 - 100
10 mm	49.00	0 - 20	25 - 55
4.75 mm	Nil	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Sample No	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2007)
1.	Flakiness Index	As above	15.70 %	Not to exceed 25 %
2.	Crushing value	---,,---	26.30%	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

*As Furnished by Client.

The Results relate only to the items tested.

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JNANA BHARATHI
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BUB/CTE/2015-16/

Date: 11-05-2015

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10 and 12mm.
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

Ref.: Letter No. Testing/BUB/2014-15, dated 08-05-2015

Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor,
Bangalore.

Report required for: Assistant Executive Engineer,
SWD, Yalahanka Zone,
BBMP, Bangalore.

TABLE – 1

SL No	Details	For10 mm		For 12mm	
		Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req as per IS 1786-2008
01	Observed diameter of bar	**10.0mm**	10.0mm	**12.0mm**	12.0mm
02	Observed Wt/m Length **Kg/m**	**0.624**	0.567	**0.894**	0.834
03	Proof stress/Yield stress, fy , **N/mm^2**	**555.0**	500.0	**558.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**20.30**	12.00	**19.40**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**628.0**	545.0	**636.0**	545.0

*As furnished by Client.
The Results relate only to the items tested.

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JNANA BHARATHI
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BUB/CTE/2015-16/

Date: 18-05-2015

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

Ref.: Letter No. Testing/BUB/2014-15, dated 08-05-2015

Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor,
Bangalore.

Report required for: Assistant Executive Engineer,
SWD, Yalahanka Zone,
BBMP, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand* : Birla Super
Grade * : 53
Type * : OPC
Date : 09-05-2015 to 16-05-2015

SL No	Name of Test	Results	Requirements as per
		Cement Sample	IS 12269-1987
1	Initial setting time	**145min**	Shall not be less than 30 min
2	Final setting time	**250 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.80%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.60 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results) b) 7 days (average of three results)	**29.40 N/ Sq mm** **40.30 N/Sq mm**	Shall not be less than 27 N/Sqmm Shall not be less than 37N/Sqmm

*As Furnished by Client.
The Results relate only to the items tested.

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JNANA BHARATHI
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BUB/CTE/2015-16/

DATE: 27-06-2015

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes for 07 days Compressive Strength
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}
Ref.: Letter No. Testing/BUB/2015-16, dated 26-06-2015
Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor,
Bangalore.
Report required for: Assistant Executive Engineer,
SWD, Yalahanka Zone,
BBMP, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

Location : Below Approach Slab Concrete.

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-06-15	26-06-15	07	22500	395	17.55	**17.33**
	002	"	"	"	"	385	17.11	
	003	"	"	"	"	390	17.33	

* As furnished by Client.
The Results relate only to the items tested.

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BUB/CTE/2015-16/

DATE: 18-07-2015

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes for 28 days Compressive Strength
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

Ref.: Letter No. Testing/BUB/2015-16, dated 17-07-2015

Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor,
Bangalore.

Report required for: Assistant Executive Engineer,
SWD, Yalahanka Zone,
BBMP, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

Location : Below Approach Slab Concrete.

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-06-15	17-07-15	28	22500	415	18.44	**18.22**
	002	"	"	"	"	405	18.00	
	003	"	"	"	"	410	18.22	

* As furnished by Client.
The Results relate only to the items tested.

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BUB/CTE/2015-16/

DATE: 03-06-2015

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes for 07 days Compressive Strength
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}
Ref.: Letter No. Testing/BUB/2015-16, dated 02-06-2015
Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor,
Bangalore.
Report required for: Assistant Executive Engineer,
SWD, Yalahanka Zone,
BBMP, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{35}

Location : Raft Concrete.

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-05-15	02-06-15	07	22500	600	26.66	**26.66**
	002	"	"	"	"	595	26.44	
	003	"	"	"	"	605	26.88	

* As furnished by Client.
The Results relate only to the items tested.

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BUB/CTE/2015-16/

DATE: 24-06-2015

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes for 28 days Compressive Strength
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

Ref.: Letter No. Testing/BUB/2015-16, dated 23-06-2015

Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor,
Bangalore.

Report required for: Assistant Executive Engineer,
SWD, Yalahanka Zone,
BBMP, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{35}

Location : Raft Concrete.

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-05-15	23-06-15	28	22500	830	36.88	**37.03**
	002	"	"	"	"	840	37.33	
	003	"	"	"	"	830	36.88	

* As furnished by Client.
The Results relate only to the items tested.

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BUB/CTE/2015-16/

DATE: 06-06-2015

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes for 07 days Compressive Strength
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}
Ref.: Letter No. Testing/BUB/2015-16, dated 05-06-2015
Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor,
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Report required for: Assistant Executive Engineer,
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BBMP, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{35}

Location : Wall Concrete.

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	29-05-15	05-06-15	07	22500	590	26.22	**25.84**
	002	"	"	"	"	575	25.55	
	003	"	"	"	"	580	25.77	

* As furnished by Client.
The Results relate only to the items tested.

6/6/2015

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BUB/CTE/2015-16/

DATE: 27-06-2015

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes for 28 days Compressive Strength
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

Ref.: Letter No. Testing/BUB/2015-16, dated 26-06-2015

Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor,
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Report required for: Assistant Executive Engineer,
SWD, Yalahanka Zone,
BBMP, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{35}

Location : Wall Concrete.

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	29-05-15	26-06-15	28	22500	865	38.44	**38.66**
	002	"	"	"	"	870	38.66	
	003	"	"	"	"	855	38.00	

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The Results relate only to the items tested.

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BUB/CTE/2015-16/

DATE: 12-06-2015

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes for 07 days Compressive Strength
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

Ref.: Letter No. Testing/BUB/2015-16, dated 11-06-2015

Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor,
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Report required for: Assistant Executive Engineer,
SWD, Yalahanka Zone,
BBMP, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{35}

Location : Deck Slab Concrete.

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	04-06-15	11-06-15	07	22500	610	27.11	**26.88**
	002	"	"	"	"	600	26.66	
	003	"	"	"	"	605	26.88	

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BUB/CTE/2015-16/

DATE: 03-07-2015

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes for 28 days Compressive Strength
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

Ref.: Letter No. Testing/BUB/2015-16, dated 02-07-2015

Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor,
Bangalore.

Report required for: Assistant Executive Engineer,
SWD, Yalahanka Zone,
BBMP, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{35}

Location : Deck Slab Concrete.

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	04-06-15	02-07-15	28	22500	850	37.77	**37.62**
	002	"	"	"	"	840	37.33	
	003	"	"	"	"	850	37.77	

* As furnished by Client.
The Results relate only to the items tested.

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BANGALORE - 560 056

BUB/CTE/2015-16/

DATE: 01-07-2015

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes for 07 days Compressive Strength
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}
Ref.: Letter No. Testing/BUB/2015-16, dated 30-06-2015
Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor,
Bangalore.
Report required for: Assistant Executive Engineer,
SWD, Yalahanka Zone,
BBMP, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

Location : Approach Slab Concrete.

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	23-06-15	30-06-15	07	22500	535	23.77	**23.77**
	002	"	"	"	"	530	23.55	
	003	"	"	"	"	540	24.00	

* As furnished by Client.
The Results relate only to the items tested.

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BUB/CTE/2015-16/

DATE: 22-07-2015

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes for 28 days Compressive Strength
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}
Ref.: Letter No. Testing/BUB/2015-16, dated 21-07-2015
Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor, Bangalore.
Report required for: Assistant Executive Engineer, SWD, Yalahanka Zone, BBMP, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

Location : Approach Slab Concrete.

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	23-06-15	21-07-15	28	22500	755	33.55	**33.77**
	002	"	"	"	"	765	34.00	
	003	"	"	"	"	760	33.77	

* As furnished by Client.
The Results relate only to the items tested.

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24.7.2015

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